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**From:** Thomas, Katie (Sanders) [Katie\_Thomas@sanders.senate.gov]  
**Sent:** 6/28/2017 8:04:43 PM  
**To:** Brown, Rudy [Brown.Rudy@epa.gov]  
**CC:** Pero, Haley (Sanders) [Haley\_Pero@sanders.senate.gov]; Hinch, Ethan (Sanders) [Ethan\_Hinch@sanders.senate.gov]; Akerlof, Karen (Sanders) [Karen\_Akerlof@sanders.senate.gov]  
**Subject:** FW: Ammonia in Residential Heat Pump Applications

Hey Rudy,

Can you help us out with a question we got from a constituent regarding federal restrictions on the use of Ammonia in residential heat pump applications? We're not aware of any existing restrictions, so we wanted to check with you.

Thanks!  
KT

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**From:** Hinch, Ethan (Sanders)  
**Sent:** Wednesday, June 28, 2017 3:51 PM  
**To:** Thomas, Katie (Sanders) <Katie\_Thomas@sanders.senate.gov>; Akerlof, Karen (Sanders) <Karen\_Akerlof@sanders.senate.gov>  
**Subject:** Ammonia in Residential Heat Pump Applications

Hi Katie and Karen,

We received the following constituent letter back in February:

*Hi,*

*on the energy committee could you R717 (Ammonia) NH3 Refrigerant pass or approve permit the use of R717 (Ammonia) NH3 Refrigerant in all applications including residential heat pump applications*

Are either of you familiar with federal restrictions on the use of Ammonia in residential heat pump applications? I'm not able to find anything online that indicates that there are any restrictions, just that concentrated ammonia is highly toxic and risky to use in domestic applications.

Thanks!

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